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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-05/028c/CEMENT/2016-17 Date: 05.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
*NAME OF THE WORK	:	Construction of Anganavadi Building near Maheshwaramma temple at Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/517/2016-17 Dated: 02.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	02.05.2016
PERIOD OF TESTING	:	02.05.2016 to 05.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-05/028c/SAND-Gradation/2016-17 : 05.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Construction of Anganavadi Building near Maheshwaramma temple at Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/517/2016-17 Dated: 02.05.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 02.05.2016

Date of Testing : 05.05.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.40	90-100	90-100	90-100	95-100
2.36	77.40	60-95	75-100	85-100	95-100
1.18	59.40	30-70	55-90	75-100	90-100
600 Micron	31.40	15-34	35-59	60-79	80-100
300 Micron	15.40	5-20	8-30	12-40	15-50
150 Micron	4.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-05/028c/AGG/GR/2016-17 : 05.05.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Construction of Anganavadi Building near Maheshwaramma temple at Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.

*** Reference** : BBMP/DZ/AEE/TDSD/PR/517/2016-17 Dated: 02.05.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 02.05.2016

Date of Testing : 05.05.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.40	95-100	85-100
10	30.70	25-55	0-20
4.75	5.60	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.14/KRIDL/STEEL/2016-17 12.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of Anganavadi Building near Maheshwaramma temple at Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/517/2016-17 Dated: 02.05.2016
Date of Test	:	12.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No.14/KRIDL/STEEL/2016-17 12.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of Anganavadi Building near Maheshwaramma temple at Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/517/2016-17 Dated: 02.05.2016
Date of Test	:	12.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.30	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-05/028c/CUBE/2016-17 01.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of Anganavadi Building near Maheshwaramma temple at Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.

*** Reference** : BBMP/DZ/AEE/TDSD/PR/517/2016-17 Dated: 02.05.2016

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 01.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2016	01.06.2016	8.125	356.6	15.85
2	25.05.2016	01.06.2016	8.239	378.3	16.81
3	25.05.2016	01.06.2016	8.322	382.3	16.99

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-05/028c/Bricks/2016-17 : 12.05.2016

TEST REPORT ON BRICKS

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of Anganavadi Building near Maheshwaramma temple at Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/517/2016-17 Dated: 02.05.2016

Sample ID/Type of Test : Bricks / Water Absorption of Bricks

Technical Reference : IS: 3495(Part-2)- 1992 (RA-2007)

Sample Received on : 05.05.2016

Date of Testing : 12.05.2016

Sl.No.	Size of Bricks in mm	Dry weight in gms	Wet weight in gms	Water Abosorption in %	Average Water Absorption in %	Allowable Water absorbtion as per IS: 1077:1992 Clause 7.2)
1	220x100x75	2949	3290	11.56	11.54	Not exceeding 20%
2	220x100x75	2958	3296	11.43		
3	220x100x75	2947	3289	11.61		
4	220x100x75	2935	3287	11.99		
5	220x100x75	2967	3296	11.09		

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-05/028c/Bricks/2016-17 : 12.05.2016

TEST REPORT ON BRICKS

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of Anganavadi Building near Maheshwaramma temple at Bhuvaneshwari Nagara in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/517/2016-17 Dated: 02.05.2016

Sample ID/Type of test : Bricks / Compressive Strength of Bricks

Technical Reference : IS: 3495(Part-1)- 1992 (RA-2007)

Sample Received on : 05.05.2016

Date of Testing : 12.05.2016

Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)	Class Designation (As per IS: 1077:1992 Table 1)
1	220x100x75	3430.00	176.2	8.01	7.98	7.5
2	220x100x75	3415.00	170.3	7.74		
3	220x100x75	3285.00	180.2	8.19		
4	220x100x75	3440.00	178.3	8.10		
5	220x100x75	3315.00	172.3	7.83		

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